

FLUID FLOW CONTROL APPARATUS

Abstract

A device for controlling a fluid flow is disclosed. The device includes at least two fluid flow drivers, a plenum disposed to receive a fluid flow from the at least two drivers, and a baffle disposed within the plenum. The plenum has a first cross-sectional area proximate the at least two drivers and a second cross-section area at a distance from the at least two drivers, the second cross-sectional area being an exit for the fluid flow. The baffle has a first edge restrained proximate the first cross-sectional area and a second opposing edge freely disposed proximate the second cross-sectional area. The baffle has a surface area responsive to the fluid flow within the plenum to reduce a backflow if one of the at least two drivers is operational and another is non-operational.